

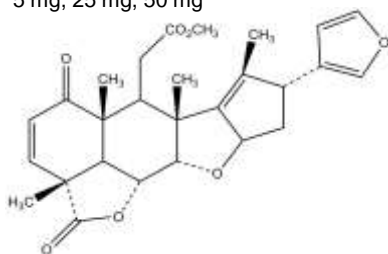
## Nimbolide

**ALTERNATE NAME:** (4 $\alpha$ ,5 $\alpha$ ,6 $\alpha$ ,7 $\alpha$ ,15 $\beta$ ,17 $\alpha$ )-7,15:21,23-Diepoxy-6-hydroxy-4,8-dimethyl-1-oxo-18,24-dinor-11,12-secochola-2,13,20,22-tetraene-4,11-dicarboxylic Acid  $\gamma$ -lactone Methyl Ester; CCRIS 5723, NSC-309909

**CATALOG #:** 1891-5, 25, 50

**AMOUNT:** 5 mg, 25 mg, 50 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>27</sub>H<sub>30</sub>O<sub>7</sub>

**MOLECULAR WEIGHT:** 466.52

**CAS NUMBER:** 25990-37-8

**APPEARANCE:** Off-white solid

**SOLUBILITY:** DMSO (~50 mM) or Ethanol (~8 mM)

**PURITY:** ≥98% by TLC

**STORAGE:** Store at -20 °C

**DESCRIPTION:** A terpenoid lactone derived from *Azadirachta indica* (Neem tree) that displays a variety of biological activities including anti-malarial and anticancer activity. Recently it has also been shown that nimbolide sensitizes colon cancer cells to TRAIL-induced apoptosis through three distinct mechanisms: reactive oxygen species and ERK-mediated up-regulation of DR5 and DR4, downregulation of cell survival proteins, and up-regulation of pro-apoptotic proteins p53 and Bax.

**REFERENCE:** Gupta, S.C., *et al.* (2011). *J. Biol. Chem.*, **286**, 1134-1146.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

- Betulinic Acid (**Cat. No. 1552-25**)
- Bexarotene (**Cat. No. 1575-5, 50**)
- Capecitabine (Cat. No. 1741-100, 1000)
- Carboplatin (**Cat. No. 1553-100**)
- Cisplatin (**Cat. No. 1550-100,1000**)
- Daunorubicin.HCl (**1524-10,50,500**)
- Doxorubicin HCl (**Cat. No. 1527-5**)
- Fludarabine Phosphate (**Cat. No. 1763-10, 50**)
- Gemcitabine Hydrochloride (**Cat. No. 1759-25, 100**)
- Genistein (**Cat. No. 1533-10**)
- Mitoxantrone (**Cat. No. 1885-50, 250**)
- Nedaplatin (**Cat. No. 1576-5**)
- Oxaliplatin (**Cat. No. 1577-25**)
- Paclitaxel (**Cat. No. 1567-25**)
- Tamoxifen Citrate (**Cat. No. 1551-1000**)